Using open science principles for
open science advocacy, the RDM case

Julien Colomb, Roman Gerlach,
(roman.Gerlach@uni-jena.de)
Research data management help-desk, Informatik department, Friedrich Schiller University Jena

1. The plan

CREATE MATERIAL
SHORT, ATTRACTIVE, FUNNY VIDEOS
PUNCH LINES AND ELEVATOR PITCH
ARGUMENTS
ONE SLIDE PRESENTATIONS

THE STRATEGY
GATHER AND LIST EXISTING MATERIAL
SHARE AND ANALYSE REAL LIFE-STORIES
CREATE NEW MATERIAL (SCRIPT, COMICS, VIDEOS, …)

Sciency project:

Data management plan
.md text as raw data
.csv as derived data and
metadata
.Rmd as reproducible
reports (analysis)

Working open project:

GitHub repository
Zenodo archive
Static Website (using .md
and Rmd file)

2. Collected material

Research data management
Promotion material
HOME   TEXTS   IMAGES   VIDEOS   CONTACT

2.1 media

53 videos listed
+ 24 images:
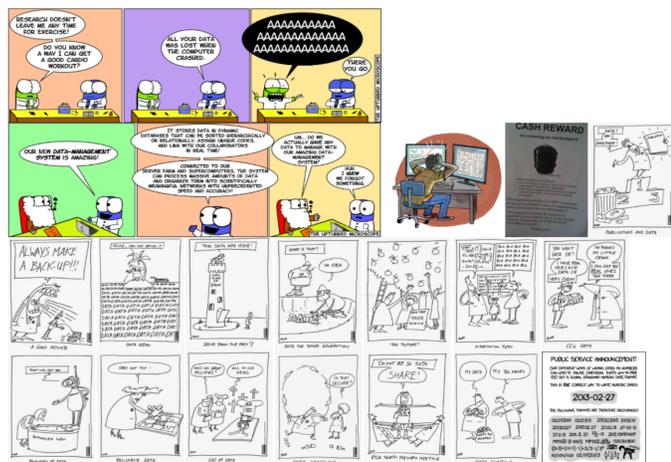
AN OPEN SCIENCY PROJECT

FOSTERING COLLABORATION
PRODUCING OPEN FAIR MATERIAL
MAKING EVERYTHING OPEN AS EARLY AS POSSIBLE

IMAGE CC-BY, HTTPS://GITHUB.COM/JCOLOMB/OPENSCIENCELOGO

Open Science

Working open with GitHub/zenodo
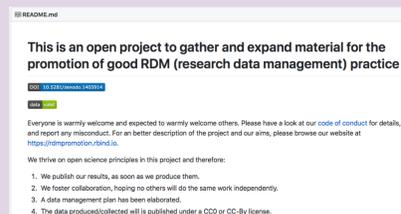
Goodtables.io

From Data, to analysis and reports

Google-sheet → *automatic download* → .csv data → *Rmarkdown* → Blog posts

Email
GitHub issues → *manual entry* → .md text → *analysis* → .csv data / .csv metadata → Blog posts
Google-doc

External Blogs → *manual editing* → .md text → Blog posts
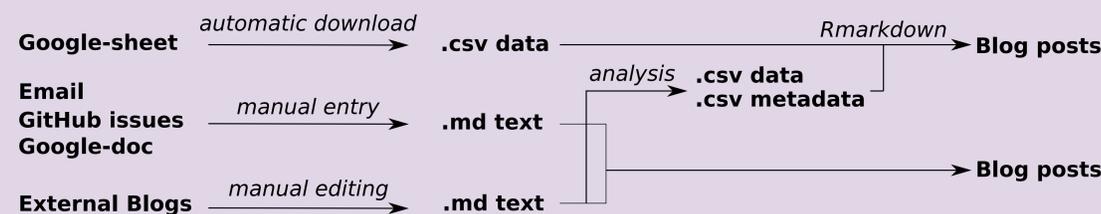
Four categories of blog entries

ANALYSIS — WHAT WE DISCOVERED SO FAR

COLLECTED_STORIES — HOW THE INSTITUTIONAL DATA REPOSITORY HELPED ME PROMOTE MY DATA

CREATED_MATERIAL — GENERIC_VERSION_0.1

IDEA_NEW_MAT — VIDEO_FINDABLEDATA

2.2 Best arguments and stories

Arguments for RDM

Ethical values of academia

open data for better science
RDM for data quality

Open data is inevitable
RDM for data security
RDM is time investment
RDM allows better, easier data
analysis

RDM as Core competence

Disaster STORY TELLING:
data loss
accusation of fraud

PROBLEM: "*At one science-focused institution anything coming from the library was automatically perceived as a waste of money and not useful for the research community*"

Strategies:
researchers as part of the team
service branding: "service for better efficiency"

3. Create videos

ARTISTIC DESIGN

Awareness videos:
mashups of public domain
videos
(obtained via www.archive.org)

Teaching videos:
Combination of interviews and
slideshows ?

CONTENT DESIGN

- finding data
- analyzing data
- archiving (raw) data
- understanding data
- open and FAIR data

One external contributor on the website: a researcher.

How to get the RDM community to contribute ?

Appeal to existing RDM specialist
communities, so far unsuccessful:

Add your contribution here !

RDA mailing list (EU)
FDM mailing list (Germany)
data steward interest group (NL)

WE DID — *Waste time during data formating for analysis*
We did — *less data*
We had — *a paper rejected because we could not locate the raw data*
We did — *throw data away because we could not make sense of it*
We failed — *to recognize open data as the new standard*

Better Research — *organize your digital data and perform easier, reproducible analysis*
In less time — *get digital skills and work smarter*
Open FAIR data — *Foster collaboration, become a leader and speed the work*
DATA MANAGEMENT